

FIG. 1

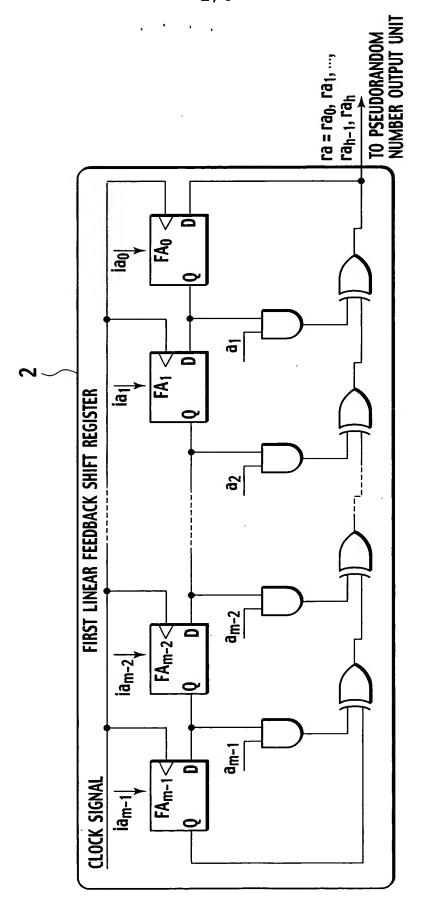


FIG. 2

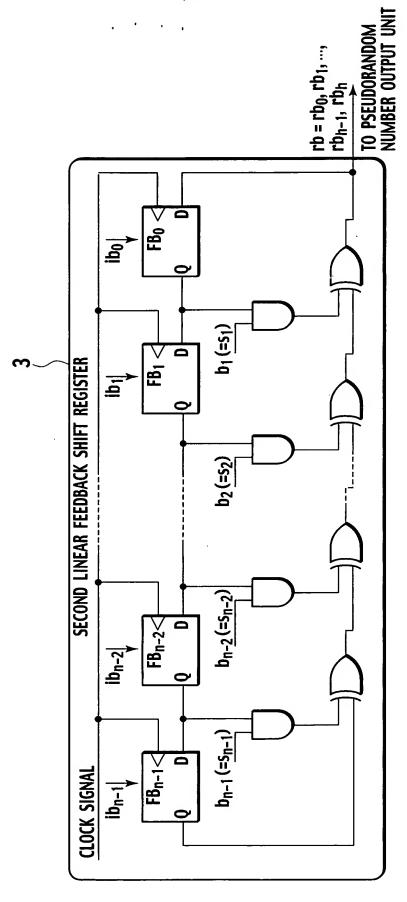


FIG. 3

FIG. 4

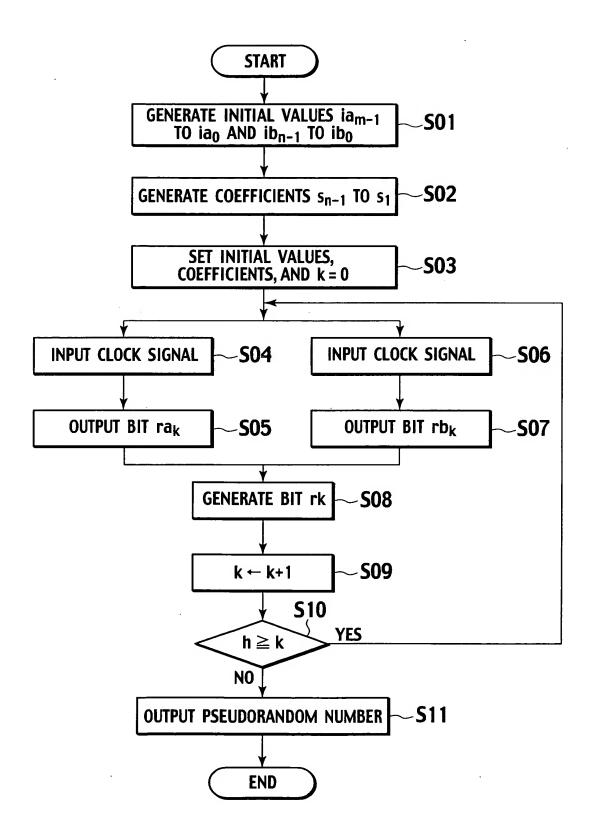


FIG. 5

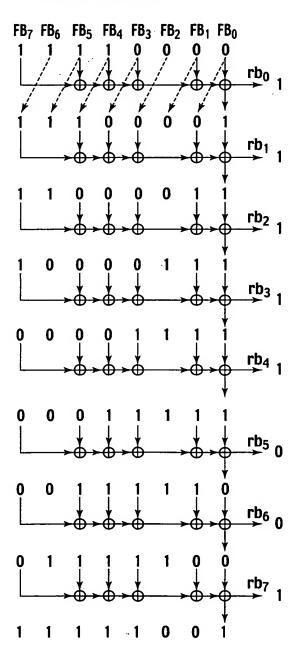
## FIRST LINEAR FEEDBACK SHIFT REGISTER

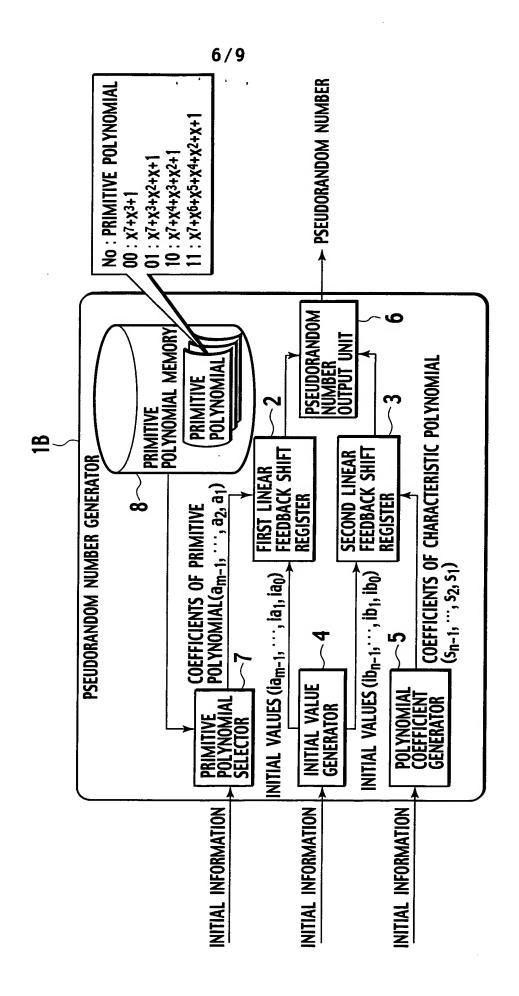
 $x^7 + x^3 + 1$  (a<sub>6</sub>, a<sub>5</sub>, a<sub>4</sub>, a<sub>3</sub>, a<sub>2</sub>, a<sub>1</sub> = (000100)

## INITIAL FA6 FA5 FA4 FA3 FA2 FA1 FA0 STATE ra<sub>0</sub> 0 +1 ra<sub>1</sub> → 0 +2 0 0 0 1 ra<sub>2</sub>0 +3 0 ra<sub>3</sub>0 +4 0 0 0 1 0 ra<sub>4</sub> 1 +5 0 ra<sub>50</sub> +6 0 0 0 0 1 ra<sub>6</sub>1 +7 0 0 0 0 ra7 1 0 - 0 0 1 1

## SECOND LINEAR FEEDBACK SHIFT REGISTER

 $x^8 + x^6 + x^5 + x^4 + x^2 + x + 1$ 





7/9 . FIG. 7 **START SELECT PRIMITIVE POLYNOMIAL -S21** GENERATE INITIAL VALUES ia<sub>m-1</sub> TO ia<sub>0</sub> AND ib<sub>n-1</sub> TO ib<sub>0</sub> **S22 -S23** GENERATE COEFFICIENTS s<sub>n-1</sub> TO s<sub>1</sub> SET INITIAL VALUES, COEFFICIENTS, AND k = 0 **S24** INPUT CLOCK SIGNAL INPUT CLOCK SIGNAL **-S25 S27 S26 S28 OUTPUT BIT rak** OUTPUT BIT rbk GENERATE BIT rk **-S29 S30** k ← k+1 **S31** YES  $h \ge k$ NO OUTPUT PSEUDORANDOM NUMBER **-S32 END** 

